Exhibit F



Patent

9215613

Dec 15, 2015

Assignment abstract of title for Application 14685511

Invention title/Inventor WIRELESS END-USER **DEVICE WITH DIFFERENTIAL** TRAFFIC CONTROL

POLICY LIST HAVING LIMITED USER CONTROL Gregory G. Raleigh, Alireza Raissinia,

Publication 20150223100 Aug 6, 2015

Application 14685511 Apr 13, 2015 PCT

International registration

Assignments (2 total)

Assignment 2

James Lavine

Reel/frame Execution date Date recorded **Properties** Pages 041248/0777 Dec 29, 2016 Jan 4, 2017 56

Conveyance

MERGER AND CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

Assignors HEADWATER PARTNERS I LLC HEADWATER MANAGEMENT LLC Correspondent ANN TAYLOR 1011 PRUITT PLACE **TYLER, TX 75703**

Assignee

HEADWATER RESEARCH LLC 1011 PRUITT PLACE TYLER, TEXAS 75703

Assignment 1

Reel/frame Execution date Date recorded **Properties** Pages 035403/0490 Aug 16, 2011 Apr 14, 2015 3 1

Conveyance

ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Correspondent RALEIGH, GREGORY G. ANN TAYLOR

555 TWIN DOLPHIN DR., SUITE 310 RAISSINIA, ALIREZA LAVINE, JAMES REDWOOD SHORES, CA 94065

Assignee

HEADWATER PARTNERS I LLC 555 TWIN DOLPHIN DR., SUITE 310 REDWOOD SHORES, CALIFORNIA 94065 503262786 14 04/14/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3309404

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GREGORY G. RALEIGH	08/16/2011
ALIREZA RAISSINIA	08/16/2011
JAMES LAVINE	08/16/2011

RECEIVING PARTY DATA

Name:	HEADWATER PARTNERS I LLC	
Street Address:	555 TWIN DOLPHIN DR., SUITE 310	
City:	REDWOOD SHORES	
State/Country:	CALIFORNIA	
Postal Code:	94065	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14685511

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 650-517-2791

Email: ann.taylor@headwaterllc.com

Correspondent Name: ANN TAYLOR

Address Line 1: 555 TWIN DOLPHIN DR., SUITE 310

Address Line 4: REDWOOD SHORES, CALIFORNIA 94065

ATTORNEY DOCKET NUMBER:	RALEP032C1C9	
NAME OF SUBMITTER:	ANN TAYLOR	
SIGNATURE:	/Ann Taylor/	
DATE SIGNED:	04/14/2015	

Total Attachments: 2

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> **PATENT** REEL: 035403 FRAME: 0490 503262786

Attorney Docket No. 26WV-160509 [RALEP032]

ASSIGNMENT

(1-8) Insert Name(s) of Inventor(s)

- (1) Gregory G. Raleigh
- (2) Alireza Raissinia
- (3) James Lavine

For good and valuable consideration receipt of which is hereby acknowledged, the undersigned agree(s) to assign, and hereby do(es) assign, transfer and set over to:

- Insert name of Assignee
- (9) Headwater Partners I, LLC
- (10) Insert state of incorporation of (10) State of Delaware Assignee
- (11) Insert address of Assignee
- (11) of 350 Marine Parkway, Suite 300, Redwood City, California, 94065, U.S.A.

(hereinafter designated as the Assignee) the entire worldwide right, title, interest, and patent applications and patents for every country, including divisions, reissues, continuations and all other extensions, rights and priorities in the invention known as and subject matter contained in

- (12) Insert Identification of Invention, such as Title, Case Number or Foreign Application Number
- (12) Device-Assisted Services for Protecting Network Capacity (Case No. 26WV-160509 [RALEP032], Serial No. 13/134,028) for which the undersigned have filed an application for patent in United States of America
- (13) Insert Date of Filing of Application
- (13) on May 25, 2011
- 1) The undersigned agree(s) to execute all papers necessary in connection with the application and any continuing or division applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.
- 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
- 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.
- The undersigned hereby authorize(s) and request(s) the Commissioner for Patents and the duly constituted authorities of foreign countries to issue any and all Letters Patents resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, its successors and assigns, as Assignee of the entire right, title and interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

-1-

Attorney Docket No. 26WV-160509 [RALEP032]

6) The undersigned hereby grant(s)

Marc A. Sockol, Reg. No. 40,823; Shaalu Mehra, Reg. No. 44,934; Daniel C. Kloke, Reg. No. 58,417; William F. Ahmann, Reg. No. 52,548; Mukund H. Sharma, Reg. No. 64,692; and all attorneys and agents associated with Customer No. 69849.

the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date 8/16/2011

Oregory G. Raleigh

Alireza Raissinia

Date James Lavine

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-2-

PATENT REEL: 035403 FRAME: 0492

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4210295

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	MERGER AND CHANGE OF NAME	
EFFECTIVE DATE:	12/29/2016	

CONVEYING PARTY DATA

Name	Execution Date
HEADWATER PARTNERS I LLC	12/29/2016

NEWLY MERGED ENTITY DATA

Name	Execution Date
HEADWATER MANAGEMENT LLC	12/29/2016

MERGED ENTITY'S NEW NAME (RECEIVING PARTY)

Name:	HEADWATER RESEARCH LLC	
Street Address:	1011 PRUITT PLACE	
City:	TYLER	
State/Country:	TEXAS	
Postal Code:	75703	

PROPERTY NUMBERS Total: 56

Property Type	Number
Patent Number:	8839387
Patent Number:	8839388
Patent Number:	8868455
Patent Number:	8886162
Patent Number:	8893009
Patent Number:	8897743
Patent Number:	8897744
Patent Number:	8898079
Patent Number:	8898293
Patent Number:	8903452
Patent Number:	8924469
Patent Number:	8924543
Patent Number:	8924549
Patent Number:	8948025
Patent Number:	9014026

PATENT REEL: 041248 FRAME: 0777

504163618

Case 2:23 ev 00397 J i	RC-RSP		Filed 04
Property Type		# <u>18635</u> Number	
Patent Number:	9026079		
Patent Number:	9037127		
Patent Number:	9094311		
Patent Number:	9137701		
Patent Number:	9137739		
Patent Number:	9143976		
Patent Number:	9154428		
Patent Number:	9173104		
Patent Number:	9179308		
Patent Number:	9179315		
Patent Number:	9179316		
Patent Number:	9179359		
Patent Number:	9198042		
Patent Number:	9198074		
Patent Number:	9198075		
Patent Number:	9198076		
Patent Number:	9198117		
Patent Number:	9204282		
Patent Number:	9204374		
Patent Number:	9215159		
Patent Number:	9215613		
Patent Number:	9220027		
Patent Number:	9225797		
Patent Number:	9232403		
Patent Number:	9247450		
Patent Number:	9253663		
Patent Number:	9258735		
Patent Number:	9270559		
Patent Number:	9271184		
Patent Number:	9277433		
Patent Number:	9277445		
Patent Number:	9319913		
Patent Number:	9351193		
Patent Number:	9386121		
Patent Number:	9386165		
Patent Number:	9392462		
Patent Number:	9491199		
Patent Number:	9491564		

PATENT REEL: 041248 FRAME: 0778

Case 2:23 ev 00397 JRC-RSP -- Document 148 6 -- Filed 04/14/25 -- Page 8 of 11 PageID

Property Type	Number 18636
Patent Number:	9521578
Patent Number:	9532161
Patent Number:	9532261

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 903-201-6211

Email: patent@headwaterllc.com

Correspondent Name: ANN TAYLOR

Address Line 1: 1011 PRUITT PLACE
Address Line 4: TYLER, TEXAS 75703

NAME OF SUBMITTER:	ANN TAYLOR
SIGNATURE:	/Ann Taylor/
DATE SIGNED:	01/04/2017

Total Attachments: 3

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> PATENT REEL: 041248 FRAME: 0779



#: 18637

Page 1

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"HEADWATER PARTNERS I LLC", A DELAWARE LIMITED LIABILITY COMPANY,

WITH AND INTO "HEADWATER MANAGEMENT LLC" UNDER THE NAME OF "HEADWATER RESEARCH LLC", A LIMITED LIABILITY COMPANY ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE ON THE TWENTY-NINTH DAY OF DECEMBER, A.D. 2016, AT 3:02 O'CLOCK P.M.



4966025 8100M SR# 20167326785 Authentication: 203606635 Date: 12-29-16

You may verify this certificate online at corp.delaware.gov/authver.shtml

PATENT REEL: 041248 FRAME: 0780 Document 148-6 #: 18638 Filed 04/14/25

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State of Delaware
Secretary of State
Division of Corporations
Delivered 03:02 PM 12/29/2016
FILED 03:02 PM 12/29/2016
SR 20167326785 - File Number 4966025

CERTIFICATE OF MERGER

MERGING

HEADWATER PARTNERS I LLC A DELAWARE LIMITED LIABILITY COMPANY

WITH AND INTO

HEADWATER MANAGEMENT LLC A DELAWARE LIMITED LIABILITY COMPANY

Pursuant to Section 18-209 of the Delaware Limited Liability Company Act

Headwater Management LLC, a Delaware limited liability company (the "LLC"), does hereby certify as follows:

FIRST: The LLC is a limited liability company duly formed and existing under the laws of the State of Delaware and Headwater Partners I LLC (the "Company") is a limited liability company duly formed and existing under the laws of the State of Delaware.

SECOND: The Agreement and Plan of Merger (the "Merger Agreement"), dated as of December 29, 2016, by and among the Company and the LLC, setting forth the terms and conditions of the merger of the Company with and into the LLC (the "Merger"), has been approved, adopted, certified, executed and acknowledged by the LLC and the Company in accordance with Section 18-209 of the Delaware Limited Liability Company Act.

THIRD: The LLC shall be the surviving entity of the Merger (the "Surviving LLC") and the name of the Surviving LLC shall be changed to "Headwater Research LLC".

FOURTH: The executed Merger Agreement is on file at the principal place of business and office of the Surviving LLC at the following address: 1011 Pruitt Place, Tyler, Texas 75703.

FIFTH: A copy of the Merger Agreement will be furnished by the Surviving LLC, on request and without cost, to any member of the Company or the LLC.

SIXTH: The Merger shall be effective upon the filing of this Certificate of Merger with the Secretary of State of the State of Delaware.

* *

IN WITNESS WHEREOF, Headwater Management LLC has caused this Certificate of Merger to be executed by an authorized person on December 29, 2016.

HEADWATER MANAGEMENT LLC

By:	/s/ Greg Raleigh
Name:	Greg Raleigh
Title:	Manager

[Signature Page to Certificate of Merger]

PATENT REEL: 041248 FRAME: 0782

RECORDED: 01/04/2017